



SCREENING STANDARDS

Grading, Drainage and Stormwater **INDEX 14**

Applicant Services Center

700 Fifth Avenue, Suite 2000

P. O. Box 34019

Seattle, WA 98124-4019

Phone: (206) 684-8850

Hours: M/W/F, 7:30am-5:30pm; T/Th, 10:30am-5:30pm

You are responsible for verifying and accurately depicting all locations and dimensions of property lines; setback distances; and the location and width of streets, rights-of-way, easements and the City may require additional information as needed. If you have any questions concerning your application submittal, please visit or call the Applicant Services Center Drainage and Sewer Review Desk at 684-5362.

The Grading Drainage Plan is the final depiction of the grade changes necessary to install the proposed structural, infrastructure and site improvements. **Erosion control performance standards must be maintained on the site regardless of site disturbance.**

Plot Plan - In addition to the Plot Plan Standards for the Project Type.

Req.	Prov.	
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| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show existing and proposed finished grades (elevations) at a 2 foot contour interval clearly labeled for proposed structural, infrastructure and site improvements. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate quantity of excavation and quantity of fill (in cubic yards) on the cover sheet. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show the surveyed location of all Significant Trees required to be retained within and adjacent to the clearing limits, and give the accurate dimensions of their associated drip lines. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show details for tree protection techniques for these Significant Trees to be retained. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show the location of all proposed structures and impervious surfaces (improvements). If these are adjacent to an ECA, show the distance from the improvement to the ECA boundary or setback. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show the location of all temporary stockpiles and excavations. Provide cross section showing the maximum slopes and height and/or depth. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show temporary shoring methods if used or engineered cut recommended by geotechnical engineer. |
| <input type="checkbox"/> | <input type="checkbox"/> | If excavated soil is transported to another site in the City of Seattle limits, provide Grading permit or application number. If location is unknown, provide a letter that this information can be provided prior to excavation. |
| <input type="checkbox"/> | <input type="checkbox"/> | For structural fill, specify the following minimum design criteria. |
| | <input type="checkbox"/> | Compaction criteria |
| | <input type="checkbox"/> | Soil bearing pressure |
| | <input type="checkbox"/> | Equivalent fluid pressure |
| | <input type="checkbox"/> | Passive pressure |
| | <input type="checkbox"/> | Coefficient of friction |

Plot Plan - continued

- | Req. | Prov. | |
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| <input type="checkbox"/> | <input type="checkbox"/> | If the property line is within a 1:1 slope of the bottom of the excavation, provide one of the following: |
| | <input type="checkbox"/> | A temporary easement or a letter from the owner of the neighboring property giving permission to backslope the excavation onto his/her property. |
| | <input type="checkbox"/> | A report from a geotechnical engineer justifying a temporary slope that will prevent the excavation from encroaching on the neighboring property. |
| | <input type="checkbox"/> | Design drawings for a temporary shoring system, accompanied by a report from a geotechnical engineer stating the design criteria for the shoring. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Specify immediate and long term use of property |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Identify past industrial or manufacturing uses or hazardous materials, treatment, disposal or storage that has occurred on the site. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show location of existing and planned, temporary and permanent drainage control facilities if drainage review required. |
| <input type="checkbox"/> | <input type="checkbox"/> | Show the location of existing and proposed drainage discharge point, watercourses, drainage patterns and areas of standing water if drainage review required. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show locations of Rockeries and/or other Erosion Control methods. |

Shoring Information (if shoring proposed)

- | | | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Include detailed shoring plans which are prepared by and bear the seal of a structural engineer licensed in the State of Washington (if cut is less than 12', Civil Engineer okay). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Identify shoring methods such as (soldier / auger cast piles, sheet piles, soil nail systems). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Dimension location of shoring piles. Dimension clearance to property line. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show diameter of the pile. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show piles and their numbering system for each elevation. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show all tiebacks. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Reference callouts for cross sections and details. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Provide profiles of proposed and existing foundations adjacent to shoring structures and/or abutting the public right-of-way. |

Elevation Views

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| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show and label north, south, east and west elevation views of each shoring wall. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show piles for each elevation. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show height of the piles. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show lagging between piles (if required). |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show all tie backs with their elevations. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show top and bottom elevations of excavation. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show embedded length of piles. |

Shoring Details

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| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show pressure diagram. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Show tieback connection details. |

Shoring Details - continued

Req.	Prov.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Show lagging connection details.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Show drainage behind the shoring wall.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	For any work within the right-of-way, a Street Use Permit must be applied for and received prior to approval of a Shoring Permit.

Structural Notes and Specifications

<input checked="" type="checkbox"/>	<input type="checkbox"/>	Provide design parameters and material specifications, including allowable stresses.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Provide engineering recommendations for installation of anchoring systems, including detailed monitoring, testing and inspection programs for all, but not limited to, the following activities: <ol style="list-style-type: none"> 1. Installation of soldier piles. 2. Installation and testing of tieback anchors. 3. Shoring system displacement and settlement monitoring system. 4. Post tensioned or pre-stressing steel; special inspection required during pre-stressing and grouting operations. 5. Concrete placement: Special Inspection Required. 6. Structural Welding: Special Inspection Required. 7. Geotechnical engineering and surveying information gathered weekly. 8. Verification of department and location of utilities, including power, water and sewer prior to anchor drilling.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Show rockery and/or retaining structure locations, height and drainage method.